# The Journal of REPRODUCTIVE MEDICINE

for the Obstetrician and Gynecologist

**VOLUME 22** 

January-June 1979



# Contributors

Volume 22, 1979

Subject index on pa	ge 328.				
Adams, H. R.	267	Itskovitz, J.	144	Poma, P. A.	219
Ahern, J. K.	233	,,,			
Amstey, M. S.	106	Johnson, T. R., Jr.	217	Reich, L. A.	. 1
Aubrey, R. H.	213	<i>jeameen, 2, 21, 32,</i>		Reyniak, J. V.	303
		Keith, L.	319	Rosenfeld, D. L.	133
Benirschke, K.	233	Kerner, H.	144	,	
Berger, G. S.	319	Kioko, G. M.	222	Sall, S.	275
Bernstein, I. C.	97	Kosmetatos, N.	213	Segal, S. J.	225
Blackburn, G. K.	255	Krugman, R. D.	157	Selim, M. A.	93, 271
Blackman, M. S.	213	Kwon, C. S.	291	Semchyshyn, S.	45
Brandes, J. M.	144			Sher, G.	165
Budoff, P. W.	241	Lankerani, M. R.	93	Silver, H. K.	157
		Leis, H. P., Jr.	291	Small, E. C.	151
Cannon, M.	171	Lipshultz, L. I.	77	Sommers, S. C.	241
Cates, W., Jr.	207, 248	Long, E. M.	87	Spellacy, W. N.	202
Cefalo, R. C.	255	Lucas, W. E.	233	Spiekerman, A. M.	267
Chen, S. S.	261	Lyle, K. C.	225	Squire, J. J.	319
Chotiner, H. C.	267	Lyke, in C.		Strax, P.	310
Conrad, S. H.	264	McAtee, P. R.	157	Stiax, 1.	0.1
Corson, S. L.	61, 119, 177	Makowski, E. L.	157		
Cumming, D. C.	168	Menon, K. M. J.	217	Talwar, G. P.	6
		Murray, J. M.	101	Taylor, P. J.	168
Elrad, H.	213	withing, j. wi.		Thiagarajah, S.	8:
		Naeye, R. L.	148	Thompson, R. S.	233
Farrell, P. M.	255	Newmark, S. R.	267	Thornton, W. N., Jr	82
Fishburne, J. I.	177	Nolan, G. H.	217		
rishburne, j. 1.		Notali, G. 11.	217	Vasquez, H. H.	27
Gambrell, R. D., Jr.	101	Ogden, E.	106		***
Gilliland, P. F.	267	Oi, R. H.	233, 259	Waszak, S. J.	204, 26
Glover, D. B.	171	,		Wein, A. J.	7
Greenberg, S. H.	77	Peters, W. A., III	82		_
Grimes, D. A.	190, 248	Phillips, J. M.	135	Yang, S. L.	8
		Pilnik, S.	277		
Hatjis, C. G.	161	Pion, R. J.	1	Zinns, J. S.	29
Helvacioglu, A.	87	Piver, M. S.	119	Zipkin, B.	13
Hendrickx, A. G.	233	Poirier-Brode, K. Y.	259	Zlatnik, F. J.	128, 19
Hensleigh, P. A.	171	Polin, J. I.	161	Zuspan, F. P.	27

## Subject Index

Volume 22, 1979

### Contributors index on page 327.

#### Abortifacients

hypertonic saline, 248 prostaglandin F<sub>2</sub>α, 248

Abortion

adolescent, 225

induced, 207

legality of, 207

midtrimester, 106

second-trimester, 248

spontaneous, 207

Adenocarcinoma, 119, 233

Adenosis, 233

Adolescent abortion, 225

Adolescent contraception

effectiveness, 225

method, 225

use, 225

Adolescent pregnancy, 225

after gynecologic surgery, 219

diagnosis of, 219

effects, 219

pressure-induced, 219

Anencephalic twins, 264

Anencephaly, 264

Anesthesia, 219

Asthma, effects on pregnancy, 177

Antibodies

fertility immunology, 61

pregnancy termination, 61

Anticoagulant therapy

complications, 82

for ovarian hemorrhage, 82

laparotomies during, 82

Antigens, 61

Ascites, 271

Auto-immune diseases, 161

Babcock clamp, 271

Behavior therapy for obesity, 1 Benign breast diseases, 277

Birth defects and abortion, 207

Birthweight

fetal sex, 193

length of gestation, 193

low, 207

maternal weight, 193

prematurity, 207

Black population, cervical dysplasia

in, 222

Blood loss, vaginal, 190

Breast

cancer and pregnancy, 297

disease, 275, 277, 291, 310

endocrine physiology, 303

lesions, 310

secretion, 267

**Bulging membranes** 

cervical incompetence, 165

Foley catheter, 165

reduction of, 165

Cancer, breast, 297

Carcinoma, verrucous, 93

Casein, 267

Cervical dysplasia, 222

Cervical incompetence, 165

Cervical OS, congenital incompe-

tence of, 165

Cervix, congenital incompetence

of, 165

Collagen vascular disease, 213

Colposcopy, 222

Complications, postoperative, 219

Congenital heart block, 213

Congenital incompetence of the

cervix, 165

Contraception

adolescent, 225

effectiveness, 225

method, 225

population control, 97

sterilization, 97

vaginal suppository, 319

328

Cysts, retroperitoneal, 271

**DES**, 233

Delivery, due dates, 148

Demise, fetal, 204

Dermatomyositis, 161

Dialysis

effects of, 217

in pregnancy, 217

birthweight, 193

pregnancy, 193

relationship to socioeconomic

class, 193

Dietary protein

excretion, 128

low birth weight, 193

pregnancy performance, 193

relationship to urinary nitrogen,

socioeconomic class, 193

Diethylstilbestrol (DES), 233

Dieting, 1

Disease

auto-immune, 161 breast, 275, 277, 291, 310

Doppler stethoscope, 77

Drug therapy for obesity, 1

Dysplasia, cervical, 222

Dyspnea, 177

Ectopic pregnancy

after abortion, 207

age, 87

contraceptive use, 87

diagnosis of, 87

morbidity, 87

mortality, 87

previous abortions, 87, 207

race, 87

repeat, 87

Electrocautery, 168

Endocrine breast physiology, 303
Endometrial carcinoma, 241
Enzymes
deficiencies of, 255
lung, 255
Epidemiologic methodology, 207
Estimating vaginal blood loss, 190
Estriol, urinary, 264
Estrogen
effects of, 241
effects of dialysis on, 217
menopausal women, 241
serum, 233
synthetic, 233
Excretion and urinary nitrogen, 128

Familial respiratory distress syndrome, 255
Female antigens, 61
Fertility immunology, 61
Fetal demise, 204
Fever, postoperative, 161
Fibrocystic breast disease, 128
Financing obstetric surveillance, 202
Fitz-Hugh and Curtis syndrome diagnosis of, 45
symptoms of, 45
treatment of, 45

Galactorrhea, 267

Foley catheter, 165

Frigidity, 97

Genital herpes in pregnancy, 171
Genitalia, effects of DES on, 233
Gestational age, 148
Gonorrhea, 45
Gynecologic microsurgery, 135
Gynecologic surgery
alopecia after, 219
laparoscopy, 135
Gyniatricians
activities, 157
education, 157
primary health care for women,

Health care by gyniatricians, 157
Heart block, congenital, 213
Hemorrhage, ovarian, 82
Hemophilus influenza, 106
Herpesvirus hominis in pregnancy, 171
Human chorionic gonadotropin (hCG), 61
Hyaline membrane disease, 255

Hypertonic saline efficacy, 248 safety, 248 second-trimester abortion, 248 side effects, 248 Hysteroscopy, 133

Impotence, 97 Induced abortion complications, 207 late effects of, 207 legality of, 207 Infant heart block, 213 Infections gonorrheal, 45 pelvic, 161 Infertility gynecologic microsurgery, 135 tubal factors, 135 Influenza, hemophilus, 106 Intensive obstetric surveillance, financing of, 202 Invasive carcinoma, 93

Lactose, 267 Laparoscopic trauma, 168 Laparoscopy applications, 135 history, 135 infertility, 135 uterine rupture, 168 Legality of abortions, 207 Lecithin, 255 Leiomyoma, urethral, 259 Leiomyomata uteri, 161 Lesions, urethral, 259 Low birth weight, 207 Lung enzymes, 255 Lung maturation, fetal, 255 Lymph nodes, 93

Labor, 168

Macaca mulatta, 233
Male antigens, 61
Malignancy, 144
Maternal collagen disease, 213
Membranes, bulging, 165
Menopause
estrogen-progesterone therapy, 241
treatment, 241
Menstrual periods
calculation of delivery due dates, 148
last, 148
Mental health

obesity, 1

sterilization effects, 97 Methodology, epidemiologic, 207 Microsurgery, gynecologic, 135 Midtrimester abortion, 106 Müllerian atresia, 101

Nitrogen excretion, urinary, 128 Nonpuerperal breast secretion, 267 Nutrition and obesity, 1

Obesity
drug therapy, 1
genetics, 1
nutrition, 1
surgery, 1
theories, 1
treatment, 1
Obstetric surveillance, financing,
202
Osteitis pubis, 271
Ovarian adenocarcinomas, 119
Ovarian hemorrhage, 82
Ovarian surface papillomatosis, 144

Papanicolaou smears cervical dysplasia patients, 222 class II, 222 Papillomatosis, ovarian surface, 144 Pelvic infections, 161 Pelvic inflammatory disease, 45 Perihepatitis, 45 Phospholipids, 255 Planned pregnancy, 148 Polyhydramnios, 264 Population control contraception, 97 sterilization, 97 Postoperative complications, 219 Postoperative fever, 161 Pregnancy adolescent, 225

adolescent, 225
breast cancer, 298
complications, 207
dietary protein, 193
due dates, 148
dyspnea of, 177
early registration, 148
ectopic, 87, 207
effects of dialysis on, 217
effects on asthma, 177
genital herpes, 171
Herpesvirus hominis, 171
obesity, 1
planned, 148
respiratory system in, 177
systemic maternal herpes, 171

tuberculosis in, 177 Pregnancy due dates calculated, 148 reliability, 148 Pregnancy registration, early, 148 Prematurity, 207 Pressure-induced alopecia, 219 Primary care for women, 157 Primigravida, 168 Progesterone effects of, 241 effects of dialysis on, 217 menopausal women, 241 Prostaglandin F<sub>2</sub>α efficacy, 248 safety, 248 second trimester abortion, 248 side effects, 248 Prostaglandins, vaginal, 204 Protein dietary, 128, 193 related to urinary nitrogen excretion, 128 Pulmonary surfactants, 255

Rectus muscle, 271
Reliability of pregnancy due dates, 148
Renal failure, 217
Reproduction immunology, 61
Respiratory distress, neonatal, 255
Respiratory system
disease of during pregnancy, 177
physiology of during pregnancy, 177
Retroperitoneal cysts, 261

Rhesus monkeys, 233

**SLE. 213** Salpingectomy, 97 Sanitary products in estimating vaginal blood loss, 190 Schizophrenia, 97 Second-puncture trocar, 168 Second-trimester abortion, 248 Septicemia, 106 Serum estrogen, effects of dialysis on, 217 Serum progesterone, effects of dialysis on, 217 Sperm antigens, 61 Spontaneous abortion, 207 Spontaneous uterine rupture, 168 Sterility, after abortion, 207 Sterilization psychological effects, 97 reversal, 135 Stress urinary incontinence, treatment of, 271 Subclinical varicocele, 77 Suppository, vaginal contraceptive, Surgery for obesity, 1 gynecologic, 219 operative, 219 Synthetic estrogen, 233 Synthetic progesterone, 233 Systemic maternal herpes in pregnancy, 171

Teratology, 233
Testicular feminization, 101
Testicular size, 77
Trocar, second puncture, 168

Tuberculosis in pregnancy, 177 Tumors ovarian, 144 retroperitoneal, 271 urethral, 259 Twins, 264

Ultrasound, 264
Urethra, 259
Urethral leiomyoma, 259
Urethral leisions, 259
Urethral tumors, 259
Urinary estriols, 264
Urinary incontinence, treatment of, 271
Urinary nitrogen excretion, 128
Uterine defects and hysteroscopy, 133
Uterine rupture, spontaneous, 168

Vaginal agenesis
embryology, 101
surgery, 101
Vaginal blood loss estimation, 190
Vaginal contraceptive suppository,
319
Vaginal prostaglandins, 204
Vaginal maldevelopment, 101
Vascular disease, collagen, 213
Varicocele, 77
Varicocelectomy, 77
Vasectomy, 97
Verrucous carcinoma, 93
Vesical neck, 271
Vulvar carcinoma, 93

Womens' primary care, 157

# The Journal of REPRODUCTIVE MEDICINE

for the Obstetrician and Gynecologist

**VOLUME 23** 

July-December 1979



## Consultants

Volumes 22 & 23, 1979

The editors of The Journal of Reproductive Medicine gratefully acknowledge the assistance of those individuals listed below in the review of manuscripts.

Anthony P. Amarose, Ph.D.
Chicago, Illinois
Marvin S. Amstey, M.D.
Rochester, New York
Fernando Arias, M.D., Ph.D.
St. Louis, Missouri
Richard Aubry, M.D.
Syracuse, New York

Gunter F. Bahr, M.D. Washington, D.C. Joseph Barron, M.D. Chicago, Illinois R. Peter Beck, M.D. Edmonton, Alberta, Canada Gary Berger, M.D. Chapel Hill, North Carolina Ronald J. Bolognese, M.D. Philadelphia, Pennsylvania John G. Boutselis, M.D. Columbus, Ohio James L. Breen, M.D. Livingston, New Jersey William E. Brenner, M.D. Chapel Hill, North Carolina

Willard Cates, M.D. Atlanta, Georgia David Charles, M.D. St. John's, Newfoundland, Canada Ronald A. Chez, M.D. Bethesda, Maryland Luis A. Cibils, M.D. Chicago, Illinois Melvin R. Cohen, M.D. Chicago, Illinois Lionel W. Coppleson, M.D. Chicago, Illinois James P. Crane, M.D. St. Louis, Missouri Irvin M. Cushner, M.D. Los Angeles, California

Ezra C. Davidson, Jr., M.D. Los Angeles, California Paul Drnowski, M.D. Chicago, Illinois William Droegemueller, M.D. Tucson, Arizona

David A. Edelman, Ph.D. Chapel Hill, North Carolina

J. I. Fishburne, M.D.
Winston-Salem, North Carolina
Roger K. Freeman, M.D.
Long Beach, California
Uwe E. Freese, M.D.
Chicago, Illinois
Ernst Friedman, M.D.
St. Louis, Missouri
Edward H. Friedrich, M.D.
Gainesville, Florida

R. Donald Gambrell, Jr., M.D.
Augusta, Georgia
Victor Gomei, M.D.
Vancouver, B.C., Canada
Robert B. Greenblatt, M.D.
Augusta, Georgia
John W. Greene, Jr., M.D.
Lexington, Kentucky

Ralph W. Hale, M.D.
Honolulu, Hawaii
Charles H. Hendricks, M.D.
Chapel Hill, North Carolina
Arthur L. Herbst, M.D.
Chicago, Illinois
John C. Hobbins, M.D.
New Haven, Connecticut
Jaroslav F. Hulka, M.D.
Chapel Hill, North Carolina

James Jones, M.D. St. Louis, Missouri

Harold Kaminetzky, M.D.
Newark, New Jersey
Edwin L. Kaplan, M.D.
Chicago, Illinois
Jonathan Katz, M.D.
New Haven, Connecticut
Raymond H. Kaufman, M.D.
Houston, Texas

Charles Kawada, M.D.
Boston, Massachusetts
David W. Keller, M.D.
St. Louis, Missouri
Moon H. Kim, M.D.
Columbus, Ohio
Robert W. Kistner, M.D.
Brookline, Massachusetts
Richard K. Kleppinger, M.D.
Reading, Pennsylvania
Leopold G. Koss, M.D.
Bronx, New York

Warren R. Lang, M.D.
Philadelphia, Pennsylvania
William J. Ledger, M.D.
Los Angeles, California
Henry P. Leis, Jr., M.D.
New York, New York
Marshall D. Lindheimer, M.D.
Chicago, Illinois
Richard Lowensohn
Chicago, Illinois

Virendra B. Mahesh, Ph.D.
Augusta, Georgia
Edward L. Makowski, M.D.
Denver, Colorado
Philip B. Mead, M.D.
Burlington, Vermont
Myron R. Melamed, M.D.
New York, New York
Afef H. Moawad, M.D.
Chicago, Illinois
John M. Morris, M.D.
New Haven, Connecticut

Niles Newton, Ph.D. Chicago, Illinois

Richard O'Shaughnessy, M.D. Columbus, Ohio Carl Pauerstein, M.D. San Antonio, Texas Gordon Perlmutter, M.D. Reading, Pennsylvania

۸۱

Johanna F. Perlmutter, M.D.
Boston, Massachusetts
Jordan M. Phillips, M.D.
Irvine, California
Samuel Pilnik, M.D.
New York, New York
Ronald J. Pion, M.D.
Honolulu, Hawaii
Roy M. Pitkin, M.D.
Iowa City, Iowa
Steven Piver, M.D.
Buffalo, New York

James W. Reagan, M.D.
Cleveland, Ohio
Lee A. Rigg, Ph.D., M.D.
St. Louis, Missouri
Jacques E. Rioux, M.D.
Ste. Foy, Quebec, Canada

Albrecht W. Schmitt, M.D. Philadelphia, Pennsylvania Gebhard F. B. Schumacher, M.D. Chicago, Illinois Antonio Scommegna, M.D.
Chicago, Illinois
Robert E. Scully, M.D.
Boston, Massachusetts
Richard M. Soderstrom, M.D.
Seattle, Washington
William N. Spellacy, M.D.
Chicago, Illinois
Leon Speroff, M.D.
Portland, Oregon
Adolph Stafl, M.D.
Milwaukee, Wisconsin
Vernon Stevens, M.D.

Columbus, Ohio
Ronald Strickler, M.D.

St. Louis, Missouri

Duane E. Townsend, M.D.

Los Angeles, California

Donald R. Tredway, M.D.

Tulsa, Oklahoma

Nichols Vorys, M.D. Columbus, Ohio

James C. Warren, M.D., Ph.D.
St. Louis, Missouri
Allan B. Weingold, M.D.
Washington, D.C.
Clifford R. Wheeless, M.D.
Baltimore, Maryland
Preston Lea Wilds, M.D.
Norfolk, Virginia
Ralph Wynn, M.D.
Little Rock, Arkansas

S. L. Yang, M.D. Chicago, Illinois A. Albert Yuzpe, M.D. London, Ontario, Canada

Lourens J. D. Zaneveld, D.V.M., Ph.D. Chicago, Illinois Frederick P. Zuspan, M.D. Columbus, Ohio

# Contributors

Volume 23, 1979

## Subject index on page 312.

Alderman, S.	13	Hagerman, D. D.	179	Phillips, J. M.	61
Anderson, V. M.	46	Haffi, S. N.	33	Poliakoff, S. R.	76
Assali, N. S.	100	Halgrimson, M.	245	Prater, W. F.	46
B 11 W	87	Hays, C. V.	91	Presl, J.	42
Beekhuizen, W.		Herbertson, J. M.	279	Prichard, J. A.	107
Black, M. M.	21	Hellman, L. M.	98		
Block, S.	49	Henry, G.	185	Quilligan, E. J.	207, 258
Boddie, A. W.	265	Herskovic, T.	13	2	
Bowes, W. A., Jr.	245	Hochsztain de Lopez, B.	94	Reed, T. P., III	65, 69
Bridenbaugh, L. D.	85	Hulka, B.	61	Richards, L.	57
Bukovsky, A.	42	Hulka, J.	61		
C	265	1101100, ).	**	Sarge, M. J.	3
Castaneda, T. A.	265	Iams, J. D.	207	Savage, E. W.	46
Chapman, G. W.	46	Imershein, S. L.	305	Schrifrin, B. S.	213
Chesley, L. C.	151	,		Schumacher, G. F. B.	272, 284
Clewel, W. H.	237	John, M.	13	Simmons, M. A.	245
Cohen, M. R.	81	Johnson, M. L.	195	Soderstrom, R. M.	85
Collea, J. V.	258	joinison, m. 2.	175		129
Corson, S. L.	1, 49	Keith, D. M.	61	Symonds, E. M.	129
Cumming, D. C.	295	Keith, L.	61	Taeusch, H. W., Jr.	252
D-I- M	40	Kleindienst, W.	299	Taylor, P. J.	295
Dole, M.	49, 57	Kraus, R.	57		252
Druzin, M. L.	222	Riuus, R.	0.	Torday, J. S.	
Dunne, M. G.	195	Leuken, R. M.	73	Trebichavsky, I.	42
Ehrlich, E. N.		Lindemann, H. J.	73	van Geijn, H. P.	207
Epstein, M. F.	135	Lindheimer, M. D.	97, 135		87
	252	Lodge, J. R.	279	van Lith, D. A. F.	87
Erb, R. A.	65, 69	Logan, B.	57	van Schie, K. J.	6/
Everette, R. B.	115			Wainwright, A.	49
Frangenheim, H.	299	MacDonald, P. C.	115	Weathersbee, P. S.	279
Tungement, II.	2,5	Makowski, E. L.	159		252
Gabbe, S. G.	227	Massey, F. M.	265	Wong, Y. L.	115
Gallinat, A.	73	Meschia, G.	160	Worley, R. J.	115
Gambrell, R. D., Jr.	265	Mintz, C.	49		=(
Gant, N. F., Jr.	115	Militz, C.	47	Yoon, I.	76
Goebelsmann, U.	166	Parer, J. T.	305	Zachrau, R. E.	21
Gratacos, J.	222	Paul, R. H.	222	Zuspan, F. P.	97, 143, 207
Grandos, J.	222	311	222	Luspuit, 1. 1.	37, 110, 207
		311			

## Subject Index

Volume 23, 1979

### Contributors index on page 311.

AAGL (American Association of Gynecologic Laparoscopists), 61 Abdominal wall defects, fetal, 195 Abortion, 237, 289 Adjuvant chemotherapy, 3, 21 Adrenal tumors, 166 Adriamycin, 3 Aldosterone angiotensin II levels, 129 antiatriuretic effects, 135 excretion rates, 135 fetal levels, 129 in pregnancy, 115 maternal levels, 129 Alpha-fetoprotein assay, 185 **Amines** analysis, 143 elevated blood pressure and, 143 measurement, 143 pregnancy and, 143 toxic, 151 Aminocentesis contraindications, 227 diabetes and, 227 erythroblastosis fetalis, 195 fetal evaluation, 185 Amniography and fetal evaluation, Amniotic fluid alphafetoprotein level, 195 amine analysis, 143 cortisol levels, 227 excessive, 195 fetal neuroendocrine homostatic mechanism, 143 lecithin/sphingomyelin ratio in, 227, 252 lipid content, 227 norepinephrine, 143 oligohydramnios, 195

phospholipid measurement, 252

testosterone concentration, 166 Adenosine monophosphate, 279 Androgens, 81, 166 Androstendione levels during pregnancy, 166 Anemia, 195 Anencephaly breech presentation, 258 diagnosis of, 195 Anesthesia, 85, 299 Angiotensin I conversion, 129 Angiotensin II aldosterone levels, 129 arteriolar vascular smooth muscle resistance, 115 blood pressure responses, 143 cord venous blood levels, 129 endogenous, 115 fetal levels, 129 hemoglobinopathies, 115 hematocrits, 115 low renin activity, 115 maternal venous blood levels. 129 placental transfer of, 129 plasma norepinephrine, 143 preeclampsia, 115 pressor responses to, 115, 143 uterine blood flow, 115 vascular reactivity, 115 Arginine infusion, 166 Anoxia, 13 Antepartum hemorrhage, 237 Antidiuretic hormone secretion, 135 Antigonadotropin therapy, 81 Antitumor immunity to breast cancer, 21 Arteriolar sclerosis, 151 Asphyxia infant, 227 prematurity and, 245

Beta adregenic agents and premature delivery, 252 Beta sympathomimetics, 237 Birth defects, 185, 245, 258 Bladder neck and urinary incontinence, 33 Block anesthesia, 85 Blood, amine analysis of, 143 Blood estriol, 179 Bowel adhesions, 87 Bowel burns, 91 Bradycardia, fetal, 222 Breast cancer adjuvant chemotherapy, 21 anoxia, 13 antitumor immunity, 21 axillary nodes, 13 cobalt 60, 13 cytotoxic lymphocytes, 21 immunologic responses, 21 immunotherapeutic stimulation, leukocyte migration, 21 inflammatory, 3 iridium implantation, 13 nuclear grade, 21 oral contraceptives, 265 orthovoltage X-rays, 13 postoperative radiation, 13 pregnancy and lactation, 13 radiation therapy, 13 recurrence, 3, 13, 21, 265 regional lymph nodes, changes in, 21 uneradicated microextensions, Breech presentation, 258

C-19 steroids, 166 CAF (cytotoxin, adriamycin and 5-fluoracil), 3, 13 CMF (cyclophosphamide,

methotrexate, 5-fluoracil and prednisone), 3 CO<sub>2</sub> hysteroscopy, 73 CO<sub>2</sub> insufflation, 73, 76 Carboprost tromethamine, 299 Carcinoma, 46 Cardiovascular hemodynamics, 107 Cardiovascular reactivity, 143 Catecholamines hypertension, 143 in urine, 143 vascular reactivity, 115 Catechols, 252 Cerebral palsy and intrapartum events, 207 Cervical incompetence and prematurity, 237 Cesarean section breech presentation, 258 electronic fetal monitoring, 207 Cholesterol, maternal, 166 Choriocarcinomas, 166 Chorionic growth hormone prolactin, 166 Congenital anomalies breech presentation, 258 prematurity, 245 prenatal diagnosis of, 185 Congenital umbilical hernia, 195 Contraceptives, oral, 265 Contraction stress test contraindications, 222 fetal heart rate monitoring, 213, 222 false positive rates, 222 limitations, 213, 222 Corpora lutea in endometriosis, 81 Corpus luteum and steroid production, 166 Cortisol, 227 Cervical lesions, 42 Chemotherapy, 3 Chesley, Leon C., 97, 98, 100 Chorioadenoma destruens, 94 Choriocarcinoma, 94 Chorion, 129 Chronic essential hypertension, Cobalt 60 and radiation therapy, 13 Conductive gel, 91

Danazol in endometriosis treat-

Cystic hygroma, fetal, 195

Condyloma acuminatum, giant, 46

Cortisol, 135

Culdoscopy, 61

ment, 81 Dehydroepiandrosterone, 166 Delivery breech, 258 low-birth-weight, 245 norepinephrine, 143 premature, 143, 227, 237, 245, 252 Diabetes and pregnancy, 227 Diagnosis and treatment, fetal goiter, 305 Diagnostic miniculdoscopy, 87 Diazepam, 299 Digestive anomalies, fetal, 195 Diuresis, osmotic, 135 Diuretics, 151 Down syndrome, 185 Duodenal atresia, diagnosis of, 195 Duodenal obstruction, fetal, 195 Dwarfism, 195

Eclampsia

adrenal gland, hyperactive, 143 amine levels, 143 angiotensin II, 115 bodily build, 151 cardiovascular reactivity, 143 Chesley, Leon C., 97 convulsions, 107 epinephrine levels, 143 high blood pressure, 107 hypertension, 143, 151 MgSO<sub>4</sub>, 107 malnutrition, 151 multiparas, 151 norepinephrine levels, 143 nulliparas, 151 pressor responses, 115 primigravidas, 151 primiparas, 151 protein, 151 race, 151 social classes, 151 sodium amobarbital, 107 studies of, 151 sympathetic nervous system, 143 thiamin deficiency, 151 uteroplacental blood flow, 107 erythroblastosis fetalis, 195

fetal, 195 preeclampsia, 151 Electrocoagulation bowel perferation, 87 lymphoid cells in the cervix after, neoplasia and, 42

tubal ligation, 76 tumor regression after, 42 Electronic fetal heart rate monitoring contraction stress test, 213, 222 fetal evaluation, 207 nonstress test, 213, 222 Electrosurgical generators, 91 Electrosurgical safety, 91 Endometriosis, 81 Endoscopy, 73 Endotracheal anesthesia, 85 Enzymes, angiotensin converting, Epidural block anesthesia, 85 Epinephrine, 143 Esophogeal atresia, fetal, 195 Estetriol, 166 Estradiol, 166 Estriol analysis, 179 blood concentrations, 179 excretion, 166, 179 production, 166 Estrogen endometriosis treatment, 81 norepinephrine storage, 143 Estrone excretion, 166 Ethanol in labor inhibition, 237 Ethylene oxide in laparoscopic

Fetal assessment, 207, 213, 222 Fetal bradycardia, 222 Fetal edema, 195 Fetal heart rate monitoring, 207, 213, 222 Fetal hypoxia, 160, 207, 213, 227 Fetal neuroendocrinology, 143 Fetal oxygenation, 160 Fetal position and neonatal mortality, 245 Fetal scalp blood sampling, 207 Fetoscopy, 61, 185 **Fetus** abdominal wall defects, 195 amniocentesis, 185 anencephaly, 195 anomalies, 195 antepartum evaluation, 213, 222 anterior pituitary gland, 166 ascites, 195

sterilization, 49, 57

asphyxia, 245 assessment technique, 179, 185, 207 bradycardia, 222

cystic hygroma, 195 digestive tract anomalies, 195 disease, 195 duodenal obstruction, 195 edema, 195 electronic monitoring, 207, 222 esophageal atresia, 195 estriol biosynthesis, 166 ethanol effects, 237 first trimester abortion, 289 genetic disorders, 185 genitourinary anomalies, 195 heart rate monitoring, 213, 222, 245, 305 heart rate patterns, 207 hydrocephalus, 195 hypothermia, 245 hypoxia, 245 lung maturation, 166 lymphangioma, 195 maternal hypoxemia, 222 microcephaly, 195 monitoring technique, 207, 213, 222, 245 noncephalic, 245 ovarian cysts, 195 oxygen requirement, 160 oxygen supply, 160, 213, 222 pleural effusions, 195 position, 245 pulmonary maturity, 227, 252 sex determination, 166 spinal abnormalities, 195 spinal anomalies, 195 ultrasound, 195 Fibrocystic disease, 265 Fistula formation, 76 Fungi in laparoscopy, 49 Furosemide and oliguria, 107

Gas sterilization of laparoscopes, 49, 57 Gastroschisis, fetal, 195 General endotracheal anesthesia, 85 Genetic counseling, 185 Genetic disorders, prenatal diagnosis of, 185 Genitourinary anomalies, fetal, 195 Giant condyloma acuminatum, 46 Glomerular capillary endotheliosis, 151 Glomerula filtration, 107, 135 Glomerulonephritis, 107 Glucocorticoids, 252

Glutaraldehyde in laparoscope sterilization, 49 Gonadotropin synthesis, pituitary, 166 Gynecologic pathology, 284

Hemophilia, 185

Hemorrhage, antepartum, 237 High blood pressure in pregnancy, Human chorionic gonadotropin, Human chorionic somatomammotropin, 166 Human chorionic thyrotropin, 166 Human placental lactogen, 166 Hyaline membrane disease, 245 Hydatidiform moles, 94, 166 Hydramnios, 227 Hydrocele, fetal, 195 Hydrocephalus breech presentation, 258 intrauterine, 195 Hydronephrosis, fetal, 195 Hypermagnesemia, 107 Hypertension adrenal gland, 143 aldosterone, 115 amine activity, 143 amine levels, 143 angiotensin infusions, 115, 143 blood pressure, 151 cardiovascular reactivity, 143 catecholamines, 143 chronic essential, 115, 151 eclampsia, 143, 151 epinephrine infusions, 143 gestational, 151 human placental lactogen, 166 MgSO<sub>4</sub>, 107 multiparas, 151 natriuresis, 135 neurohormonal homeostasis, 143 nonpreeclamptic women, 135 norepinephrine infusions, 143 nutrition, 143 placentae, 129 preeclampsia, 151 pregnancy and, 107, 115, 129, 135, 143, 151, 166

prostaglandin vasodilator substance, 143

protein, 143

proteinuric, 129

renin activity, 115

saline infusions, 135 sympathetic nervous system, 143 theophyllin, 115 Hypertensive uremic adults, 107 Hypertensive uremic children, 107 Hypertonus, 213 Hypocalcemia, 107 Hypoglycemia, 166 Hypothermia and premature delivery, 245 Hypoxemia, maternal, 222 Hypoxia breech presentations, 258 fetal, 160, 207, 213 intrapartum, 207 lactic acid production, 160 magnesium toxicity, 107 surfactant, 227 Hyporeflexia, 107 Hypotonic saline infusion, 135 Hysteroscopic oviductal blocking clinical studies, 69 method and apparatus, 65 Hysteroscopy, 61, 65, 69, 73

latrogenic prematurity, 227 Infertility, 265, 295 Immunology, infertility, 265 Immunoprophylaxis for breast cancer, 21 In situ lymphocyte activation, 42 Indomethacin treatment, 115 Induction of abortion, 289 Infertility and endometriosis, 81 Inflammatory carcinoma, breast, 3, Insufflation, 73, 76, 87 Intraabdominal adhesions, 87 Intrapartum monitoring, 207 Iridium implantation, 13 Isoxuprine and labor inhibition, 237

Ketamine-HCl, 299 L-phenylalanime mustard, 3 Labor, premature, 115, 159, 237, 245, 252 Lactation and breast cancer, 13 Laparoscopes contamination, 57 soaking, 49 sterilization, 49 Laparoscopy abnormal findings, 299

anesthesia, 299 bowel adhesions, 87 bowel perforation, 87 burns, 91 conductive gel, 91 distance perception, 91 electrosurgical safety, 91 endometriosis treatment, 81 insufflation, 73 laparoscopes, 49, 57 outpatient, 76, 85 sterilization, 49, 57, 76 sterilization reversal, 61 tubal ligation, 76, 85 tubal transection, 76 Laparotomy, 81 Lecithin, 252

Lecithin/sphingomyelin ratio in amniotic fluid, 227, 252
Lesions, 151
Low-birth-weight abortion, 237
breech presentation, 258
delivery, 245
mortality, 245
prematurity, 237
respiratory distress syndrome,

Lymph nodes, regional, 21
Lymphangioma, fetal, 195

Lymphangioma, fetal, 195 Lymphocyte activation, in situ, 42 Lymphoreticuloendothelial responses, 21

Magnesium toxicity, 107
Malignant trophoblastic disease, 94
Malnutrition and eclampsia, 151
Mastectomy, 13
Metastases, vaginal, 94
Maternal adrenal gland, 143
Maternal serum prolactin levels in pregnancy, 166
Meningomyelocele, 258
Meiosis, 185
Methadone withdrawal, 143
Microcephaly, fetal, 195

Meningomyelocele, 258
Meiosis, 185
Methadone withdrawal, 143
Microcephaly, fetal, 195
Mineralocorticoid activity, 135
Miniculdoscopy, 87
Minilaparotomy, 76
Mitosis, 185
Monitoring, 305
Murine mammary tumor virus, 21
Myometrium and renin, 129

N<sub>2</sub>O pneumoperitoneum, 87 National Institute of Child Health and Human Development, 185, 207 Natriuresis, exaggerated, 135 Necrosis, electrocoagulation induced, 42 Neoplasia and electrocoagulation, 42 Nephrosclerosis, 151 Neural tube defects, 185 Neurohormonal homeostasis, 143 Neuromuscular blockage, 107 Nonstress test, 213, 222 Norepinephrine, 143 Norepinephrine vesicles, lysis of,

Oligohydramnios, 195, 252
Oliguria, severe, 107
Oophorectomy, 3
Omphalocele, fetal, 195
Oral contraceptives, 265
Orthovoltage X-rays and radiation therapy, 13
Osmoregulation, 135
Outpatient laparoscopy, 76, 85
Outpatient sterilization, 76

Nutrition and hypertension, 143

Oviductal blocking, hysteroscopic clinical studies, 69 method and apparatus, 65 silicone, 69 Oxygen requirement, fetal, 160

Ovarian cysts, fetal, 195

Oxygen transport to the fetus, 160
Oxytocin and premature labor
augmentation, 245
Oxytocin abeller or test, 222

Oxytocin challenge test, 222

Pathology, C-reactive protein, 284
PIH (pregnancy induced hypertension), 107, 115, 129, 135, 143, 151, 166
Papilloma virus, 46
Phenobarbital and fetal heart rate monitoring, 213

Phospholipid measurement in amniotic fluid, 252

Pituitary gonadotropin synthesis during pregnancy, 166 Pituitary hormones in pregnancy,

Placebo, 252

166

Placenta previa, 237
Placentae
blood flow, 160
enlargement, 195
estradiol production, 166
estriol biosynthesis, 166
estrone production, 166
fetal hypoxia, 160
growth, 160
human chorionic gonadotropin,
166
hypertension, 129

hypertension, 129
lactogen, 166
oxygen consumption, 160
oxygen transport, 160
permeability, 160
progesterone, 166
respiratory function, 160
size, 166
steroid hormone production, 166
testosterone conversion, 166

Placental abortion and preeclampsia, 107 Placental aspiration and fetal evalu-

ation, 185 Placental cotyledons, 129 Placental transfer of angiotensin II,

Placental transfer of angiotensin I 129 Placental transfer of renin, 129 Plasma osmolality, 135

Plasma renin activity, 115, 129
Plasma renin concentration, 129
Plasma total estriol analysis, 179
Pleural effusions, fetal, 195
Pneumometra, 73
Pneumoperitoneum, N<sub>2</sub>O, 87

Polyhydramnios anencephaly, 195 atresia, 195 diagnosis of, 195 erythroblastosis, fetalis, 195 lecithin/sphingomyelin measurement, 252 Postanesthesia recovery, 85

Posterior urethral vesical angle, 33 Posture, 135 Potter's syndrome, 195 Preeclampsia angiotensin II, 143 convulsions, 107 diagnosis of, 151 edema, 151

edema, 151 high blood pressure, 107 hypertension, 151 lesions, 151 MgSO<sub>4</sub>, 107

norepinephrine, pressor responses to, 143 proteinuric, 151 race and, 151 severe placental abortion, 107 sodium amobarbital, 107 uteroplacental blood flow, 107 uterine hypertonus, 107 weight gain, 135, 151 Pregnancy adrenal gland, 143 aldosterone, 115 amines, 143 angiotensin infusion, 115, 143 andrenergic nervous system, 143 breast cancer during, 13 catecholamines, 115, 143 choriocarcinoma, 94 detection, 166 diabetes, 227 eclampsia, 107 endometriosis, 81 epinephrine infusions, 143 high risk, 179, 195, 207, 222 hypermagnesemia, 107 hypertension, 107, 115, 129, 135, 143 hypocalcemia, 107 MgSO<sub>4</sub>, 107 methadone withdrawal, 143 natriuresis, 135 norepinephrine infusions, 143 normotensive women, 115 osmoregulation, 135 pituitary hormones, 166 placentae, 129 postural effects, 135 preeclampsia, 107 pressor agents, 143 pressor responses, 115 protein, 166 renal hemodynamics, 135 renin substrate, 42 sodium excretion, 135 steroid hormones, 166 sympathetic nervous system, 143 vascular refractoriness, 115 volume hemeostasis, 135 water handling, 135 Premalignant disease, regression of, 42 Pregnanediol, 166 abortion, 237 apgar score, 237 asphyxia, 245 beta adregenic agents, 252

breech presentation, 258 cervical incompetence, 237 cord artery pH, 245 delivery, 245 hypothermia, 245 iatrogenic, 227 low-birth-weight, 245 maternal age, 237 mortality, 245 oxytocin, 245 respiratory distress syndrome, 227 umbilical artery pH, 245 uterine malformations, 237 Prenatal genetic diagnosis, 185 Pressor agents, 115, 143 Progesterone angiotensin II refractoriness, 115 norepinephrine release, 143 pituitary gonadotropin synthesis, 166 placental production, 166 pregnanediol, 166 Progestogens and labor inhibition, 237 Prolactin, 227 Prostaglandin synthetase inhibitors, 237 Prostaglandins, 115, 299 Protein eclampsia and, 151 effects on hormones, 166 hypertension, 143 pregnancy, 166 Proteinuria, 135, 151 Proteinuric hypertension, 129 Pulmonary development, fetal, 227, 245, 252

Radiation therapy, 13 Radical mastectomy, 13 Radioimmunoassay methods, 179 Red blood cell transfusions, 115 Regional lymph nodes, 13, 21 Renal disease, 151 Renal function, 107, 135 Renal hemodynamics, 135 Renal plasma flow, 135 Renin plasma concentration, 115 Renin activity in amniotic fluid, 129 in human chorion, 129 placental, 129 posture, 135 Renin-angiotensin system, 115, 129 Renin substrate, 129

Respiratory depression, 107 Respiratory distress syndrome glucocorticoids, 252 low-birth-weight, 252 placebo, 252 prematurity, 227 risk reduction, 252

Scalp blood sampling, fetal, 207 Second trimester abortion, 289 Serum prolactin levels, maternal, 166 Serum renin activity, 135 Sickle hemoglobinopathies, 115 Silicone in laparoscopic tubal ligation, 76 Silicone in oviductal blocking, 65, 69 Sinus histiocytosis, 21 Socioeconomic factors in choriocarcinoma, 94 Sodium amobarbital in eclampsia, 107 Sodium amobarbital in preeclampsia, 107 Sodium retention, 143 Sonographic diagnosis, 305 Spermatozoa, 265 Sphingomyelin in amniotic fluid, 227, 252 Spinal abnormalities, diagnosis of, Spore forming organisms in laparoscopy, 49 Sterilization CO2 insufflation, 76 failure rate, 76 laparoscopic, 61, 76, 85 nonsurgical, 65, 69 transurgical, 65, 69 tubal, 76, 85 Yoon Falope Ring, 76 Sterilization of laparoscopes, 49, 57 Sterilization reversal laparoscopic, 61 nonsurgical, 65, 69 Stillbirths and intrapartum events, Stress, 143 Supine posture, 135 Surfactant catechols, 252

pulmonary, 227

252

Surgery

respiratory distress syndrome,

endometriosis treatment, 81 urinary incontinence, 33 Sympathetic nervous system, 143

Tachycardia, maternal, 237
Tay-Sachs disease, 185
Terbutaline and labor inhibition, 237
Testosterone, 166
Theophyllin, 115
Thermal coagulation, 87
Thiamin deficiency and eclampsia, 151
Thyroid hormones and fetal lung maturation, 227

Tissue necrosis, 91
Trocar insertion, 87
Trophoblast, 166
Trophoblastic disease, 94
Tubal ligation, 76
Tubal occlusion, 69, 87
Tubal sterilization
laparoscopic, 85
nonsurgical, 65, 69
transurgical, 65, 69
Tubal transection, 76

Tumor regression and electrocoag-

ulation, 42

Tumorectomy, 13

Twins, conjoined, 195

Ultrasound abdominal wall defects, 195 anencephaly, 195 conjoined twins, 195 cystic hygroma, 195 digestive tract anomalies, 195 dwarfism, 195 fetal ascites, 195 fetal edema, 195 fetal evaluation, 185 fetal heart rate monitoring, 213 222 fetal ovarian cysts, 195 genitourinary anomalies, 195 hydrocephalus, 195 microcephaly, 195 pleural effusion, fetal, 195 polyhydramnios, 195 spinal abnormalities, 195 Urethral length and urinary incontinence, 33 Urethral pressure and urinary incontinence, 33 Urethral sphincter, 33 Urethroscopy, 61 Urinary incontinence, 33 Urinary osmolality, 135

Urine and amine analysis, 143

Uterine cervical lesions, 42
Uterine contractions and fetal stress, 213, 222
Uterine hypertonus and preeclampsia, 107
Uterine insufflation, 73
Uterine malformation and prematurity, 237
Uteroplacental blood flow, 107, 166
Uteroplacental circulation, 129

Vaginal metastases, 94
Vascular smooth muscle resistance, 115
Vascular refractoriness, 115
Vasospasm, 107
Venereal disease, 46
Verrucous carcinoma, 46
Virilization in pregnancy, 106
Volume homeostasis, postural effects on, 135

Weight gain, 135 Wolf miniendoscope, 87

X-ray and fetal evaluation, 185

Yoon Falope Ring, 76